

AGRICULTURAL USE OF DYNAMITE IN NEW MEXICO

Interesting Report from State College Expert on How Ex- plosive May Be Utilized on the Farm.

State College, N. M., Aug. 14.—In Press Bulletin No. 226 of this station attention was called to the possibility of making use of dynamite in several farm operations, especially stump pulling. A general discussion of the nature and effectiveness of dynamite was also given. This paper deals with tree planting.

In heavy adobe soils, such as require quite an excavation in order to secure proper development of the young root system, it has been found advantageous to explode small charges of a low grade, slow acting dynamite (20 per cent ammoniac), at a distance of from 18 inches to 26 inches from the surface, thus forming a hole for the tree and at the same time loosening the soil to a greater extent, both in surface area and depth, than is possible when holes are spaded.

The charges must of necessity vary with the condition of the soil. There is no "rule of thumb" to be applied in this case. The resistance offered by the soil measures the quantity of dynamite necessary; as does the depth at which it is placed. In general, for the above mentioned depths, the charges vary from 1/4 pound to 1 1/2 pounds. A little experience and understanding of what constitutes a dynamited tree hole will solve the problem. A few simple experiments always repay the slight additional cost.

An ideal tree hole, strange to say, isn't a hole, after all. Should the operator use a charge sufficiently strong to blow the earth entirely out from about the dynamite, he might be embarrassed by the fact that there would be little dirt left at a convenient distance to replace about the tree. Further, there would be a decided waste of energy in raising the earth to a scattering distance. Once the surface gives way, the expanding gases slip from beneath the soil particles and join the atmosphere, where space is less contested. The ideal hole is produced by charging in such a manner as to raise the surface soil to a height of four feet or such a matter, and then let it fall back in place. This soil, when falling back, will become caught at the surface of the hole, and by giving it a few downward pushes with a spade a hole large enough for the tree will result and plenty of loose earth for packing about the roots will be at hand. In this manner a large radius of disturbed or subsoiled earth will be produced.

The method in some instances can compete in cost with spade holes, with the advantage of much more soil being loosened. As far as known, no harm results from the fumes remaining in the soil for several hours after the hole is made and the tree planted.

In general, the cost will range from 5 cents to 25 cents per tree hole for dynamite, fuse and caps. The labor cost also varies with the soils from 1 cent per hole to 5 cents. The holes for the charge are put straight down, and are 1 1/2 inches or 2 inches in diameter. A bar may be driven down and pulled. A pipe can be driven, its core of earth being reeling removed several times before the desired depth is reached; or an auger can be used for this purpose. Generally the latter method is the best.

In subsiding for other purposes the method is identical, except that the earth is not lifted so high in the air, and the holes are so spaced that all the soil of a given area is loosened. This spacing varies from four feet, six feet, to ten feet. The condition of the soil determines this, the heavier clay soils requiring the closer spacing. The method is expensive, and only to be used where cheaper methods fail.

HOLAND HARWELL,
Assistant in Agronomy.

LEGAL NOTICES.

In the District Court of the County of Bernalillo, State of New Mexico.

Jesus Romero, as Acting Sheriff of the county of Bernalillo, New Mexico, and as Trustee under a deed of trust executed by Mahlon E. Wilburn and Ida Wilburn, September 12th, 1911, and Halie Hunsaker.

Plaintiffs,
vs.
Mahlon E. Wilburn and Ida Wilburn,
J. O. Schwentker, Alma Howell Schwentker, and R. D. Donoho,
Defendants.

No. 3840.

Notice of Pendency of Suit.
To Mahlon E. Wilburn and R. D. Donoho, whose present location, place of residence and postoffice addresses are to the plaintiffs unknown. You and each of you are hereby notified that on the 8th day of August, A. D. 1914, there was filed in the office of the clerk of said court a complaint by the above named plaintiffs against you and the other defendants above named, wherein and whereby the plaintiffs seek to foreclose a deed of trust made by the defendants, Mahlon E. Wilburn and Ida Wilburn, his wife, to Otto Diekmann, Trustee, dated September 12th, 1911 (said Otto Diekmann having since deceased, and has been succeeded as Trustee therein by Jesus Romero, Acting Sheriff of Bernalillo county), and to have the said Court ascertain and determine the amount due upon a certain promissory note dated September 12th, 1911, for Six Hundred Dollars (\$600.00) with interest from date at the rate of ten (10) per cent per annum, due and payable six (6) months after date, together with ten (10) per cent as attorney's fees, said note made by the defendant, Mahlon E. Wilburn and Ida Wilburn, and endorsed by the defendants, J. O. Schwentker, Alma Howell Schwentker and R. D. Donoho, and payable to the order of Halie Hunsaker, one of the plaintiffs, and to have the Court ascertain and determine the amount of insurance and taxes paid by the plaintiff, Halie Hunsaker, upon that certain piece, tract and parcel of land described in and covered by said deed of trust, and awarded by said deed of trust, and awarded in the county of Bernalillo and state of New Mexico, to wit:

All of Lot Five (5) in Block twenty-nine (29) of Hurling's Highland Addition to the City of Albuquerque, N. M., as shown on the plat thereof made by Otto Diekmann and filed in the office of the Probate Clerk and Ex-Office Recorder of Bernalillo County, N. M., on the 12th day of May, 1917.

And the plaintiffs pray for a judgment foreclosing said lien on said property and premises, and the sale of said property and premises in satisfaction thereof, and for a deficiency judgment against the defendants of said note, to wit: The defendants, J. O. Schwentker, Alma Howell Schwentker and R. D. Donoho, and against the defendant, Mahlon E. Wilburn, one of the makers of

said note.

You are further notified that unless you enter your appearance in said cause on or before the 29th day of September, A. D. 1914, judgment will be rendered against you, or such of you as fail to enter such appearance by default. The name of the plaintiff's attorney is George S. Klock, and his postoffice and business address is Rooms 3 and 5, Stern Block, Albuquerque, New Mexico.

Witness the Honorable Herbert F. Reynolds, Judge of said Court, and the seal of said Court, this 8th day of August, A. D. 1914.
(Seal) A. E. WALKER,
County Clerk of Bernalillo County, New Mexico, and Clerk of the District aforesaid.

By THOS. K. D. MADDISON,
Deputy.

For Sale—Miscellaneous
FOR SALE—Old papers for putting down caps, etc. Call at Herald office.

FOR SALE—Gentle horse, new harness and buggy, \$85.00; is worth double. Address 124 1/2 South Broadway.

FOR SALE—Good 50-foot lot in Highlands opposite shops. Hammond, 952 South Walter.

UNITED STATES WOULD HAVE 8,000,000 SOLDIERS IF ON EUROPEAN SYSTEM

Washington, D. C., Aug. 14.—"If the United States should call to the colors as many men in proportion to the population as Serbia has, it would mean an army of upward of eight million men," says a statement issued by the National Geographic society at Washington, D. C., today, "and this does not take into account the fact that the recent wars in the little country have made such fatal inroads into the percentage of adult male population. Probably if the United States called as many men to the colors in proportion to the adult male population, it would mean an army of twelve million men."

"These figures show what a heavy hand Austria-Hungary laid upon the little country whose army gave such a remarkable account of itself during the two wars it has just passed through before this third one descended upon it. How terrible the ravages of the wars in the Near East have been indicated by the census of conquered territory taken by Bulgaria in the early months of the present year. That count showed that where, previous to the wars, there had been a population of 702,000 there is now a population of only 361,000. Of course Serbia did not suffer that much, but these figures are indicative of the great war it had to face."

"Military critics everywhere admit that in matters of discipline, leadership, adamantine spirit and elan, there is no army its size in the world that can make a better showing than the Serbian army made during its wars with Turkey and Bulgaria. It is a fighting force that is conceded to have every quality of strength that a military machine may possess."

"Its plan of organization is distinctive. Compulsory service is personal for all able-bodied men and pecuniary for all who are incapable of personal service. These latter must pay an indirect tax of 20 per cent additional. The military forces are divided into a national army and the landsturm, which forms the last line of defense. Service in the national army begins at 21 and ends after 45. In the landsturm it begins at 17, ends at 21, begins again at 44 and ends at 50."

"The term of service in the standing cadre is two years in the cavalry and artillery, and one and a half years in the other branches of the establishment. There is a six months' service for those in the schools of the country who can pass an examination for recruits from whose homes at least two others have served the full term."

"All those who possess cattle and suitable carts are under obligation to turn them over to the army when needed. Those who do not possess cattle and carts have 5 per cent added to their taxes for the remount fund."

Notice is hereby given that Jose Trujillo y Armijo of Placitas, N. M., who, on July 15, 1909, made, homestead entry No. 014653, for Lot 5, Section 3, E 1/4 Sec 14, Section 4, E 1/4 of Lots 1 and 2, Section 9, Township 12N, Range 5E, N. M. P. meridian, has filed notice of intention to make five year proof, to establish claim to the land above described, before Abelino L. Lucero, county clerk, at Bernalillo, N. M., on the 19th day of September, 1914.

Claimant names as witnesses: David Trujillo, Jose Trujillo y Armijo, Teodoro Chavez, Francisco Trujillo, all of Placitas, N. M.

Francisco DELGADO, Register.
Albuquerque Evening Herald.

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LEGAL NOTICE
Department of the Interior,
U. S. Land Office at Santa Fe, N. M.,
July 24, 1914.
Notice is hereby given that Florin Trujillo of Placitas, N. M., who, on July 16, 1909, made homestead entry No. 014653, for NE 1/4, Sec 14, Section 6, Township 12N, Range 5E, N. M. P. meridian, has filed notice of intention to make five year proof, to establish claim to the land above described, before Abelino L. Lucero, county clerk, at Bernalillo, N. M., on the 19th day of September, 1914.

Claimant names as witnesses: David Trujillo, Jose Trujillo y Armijo, Teodoro Chavez, Francisco Trujillo, all of Placitas, N. M.

Francisco DELGADO, Register.
Albuquerque Evening Herald.

Department of the Interior,
U. S. Land Office at Santa Fe, N. M.,
July 24, 1914.
Notice is hereby given that Jose Trujillo y Armijo of Placitas, N. M., who, on July 16, 1909, made, homestead entry No. 014653, for Lot 5, Section 3, E 1/4 Sec 14, Section 4, E 1/4 of Lots 1 and 2, Section 9, Township 12N, Range 5E, N. M. P. meridian, has filed notice of intention to make five year proof, to establish claim to the land above described, before Abelino L. Lucero, county clerk, at Bernalillo, N. M., on the 19th day of September, 1914.

Claimant names as witnesses: David Trujillo, Jose Trujillo y Armijo, Teodoro Chavez, Francisco Trujillo, all of Placitas, N. M.

Francisco DELGADO, Register.
Albuquerque Evening Herald.

Department of the Interior,
U. S. Land Office at Santa Fe, N. M.,
Mexico, July 20, 1914.
Notice is hereby given that Elias Francis Hansen, of Seboyeta, N. M., who on November 13, 1910, made homestead entry No. 014435, for SE 1/4, section 6, township 14N, range 6W, N. M. P. meridian, has filed notice of intention to make 2-year final proof, to establish claim to the land above described, before Jesus M. Luna, county clerk, at Los Lunas, N. M., on September 19th, 1914.

Claimant names as witnesses: William C. Kennedy, of Seboyeta, N. M.

Patricio Jaramillo, of Seboyeta, N. M.
Desiderio Trujillo, of Seboyeta, N. M.
Saturnino Romero, of Seboyeta, N. M.

Francisco DELGADO, Register.
"Evening Herald," Albuquerque, N. M.

HELP WANTED
EMPLOYMENT OFFICE, 210 West Silver Ave., P. O. Box 73; Phone 254.
Laborers \$1.25 to \$2.50. Good paying business for sale.

STATE MANAGER wanted by Illinois corporation. Establish office, manage salesmen. Every merchant a customer. Permanent connection. Monthly salary and commission. Bank references given. Investment of \$400 to \$1200 required to carry stock. Should easily net \$7,000 annually. Eastburne, Old Colony Bldg., Chicago.

WILL PAY reliable man or woman \$12.50 to distribute 100 FREE packages Perfumed Borax Soap Powder among friends. No money required. Ward Borax Co., 216 Institute Pl., Chicago.

FOR RENT—Rooms.
FOR RENT—Very desirable rooms for housekeeping in modern home; only well adults need apply. References required. Phone 546.

FOR RENT—One very desirable suite of outside office rooms in N. T. Armijo building. Apply Geo. F. Albright. Phone 440.

FOR RENT—3-room flat, \$12.50; close in. Apply C. A. Hudson, 414 and Copper avenue.

FOR RENT—Large room with sleeping porch. 422 W. Marquette.

FOR RENT—Five large rooms for light housekeeping to one person or in suite. \$17 S. Broadway.

FOR RENT—Two or three-room furnished apartment, with or without sleeping porch. Light, hot and cold water. 615 East Central. No children.

PERSONALS
FURNITURE REPAIRING, packing, upholstering, cabinet and mattress making, rug sizing. Phone 624. 117 S. Third St.

FOR CARPET meaning, furniture and stove repairing. W. A. Goff, phone 528.

ROOF PAINT.
WANTED—Every home owner to use Erie Carbon roof paint. Stops leaks, last 5 years. Devore ready paint, 1 gal. covers 80 sq. feet. Thos. F. Kelscher, 402 West Central.

That Ruined It.
She had a lovely bathing suit composed of gauze and net. And really it looked very cute until she got it wet.

Dunbar Bargains

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• Store room, Central Ave., between Third and Fourth Sts.
• 5-room modern brick house, 519 N. Y. ave., \$22.50; water paid.
• 4-room house, 331 No. Fifth St.; modern, \$23.00.
• 4-room house, Highlands, \$10.
• 4-room house; east Hazeldeine avenue; modern, \$20.00.
FOR SALE.
• 6-room house for sale or rent; West Coal avenue, modern; lot 104142; fine shade and lawn.
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Vulcanizing and Tire Repairing. All work guaranteed. Albuquerque Rubber Co., 524 West Central.

LOST AND FOUND
LOST—Fox terrier, white with black head and tail; two toes off one front foot. Finder return to Tony Johnson, Capital bar, for reward.

WANTED.
A MIDDLE AGED MAN wants a comfortable room on the Highlands with a quiet family, preferably a Spanish-speaking family. Address Nelson, Gen. Del.

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GEO. HUTCHINSON, 211 West Lead. Four Shoes, \$1.00.

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FOR RENT—Furnished tent house with sleeping porch. 1919 So. Walter St.

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City Office, 213 1/2 West Central Ave.
Office Hours: 9 to 11 a. m.; 2 to 4 p. m.
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MONEY TO LOAN—On salaries, household goods and livestock without removal. Notes bought and sold. Union Loan Co., room 11, over First National bank. Phone 1228.

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